NewsRelease

National Aeronautics and
Space Administration

Langley Research Center
Hampton, Virginia 23681-0001

Julia Cole
(757) 864-4052

Chris Rink
(757) 864-6786

For Release: Dec. 13, 2000

RELEASE NO. 00-090

NASA Langley 2000 Fall AGU Tip Sheet

NASA Langley researchers will report on new atmospheric science discoveries and areas of exploration at the Fall American Geophysical Union meeting in San Francisco, December 15-19, 2000 (Friday-Tuesday). Details of scheduled papers and poster sessions follow:

Comprehensive Description of Polar Stratospheric Clouds Observed during SAGE III Ozone Loss Validation Experiment (SOLVE)
New information about types, optical characteristics, correlation with temperatures, and gravity waves of polar stratospheric clouds during SOLVE, the largest field campaign ever conducted to measure ozone amounts and changes in the Arctic stratosphere, presented by Edward Browell.
Saturday, December 16, at 3:35—Moscone Center 131, Session A62C

Fifteen Years of Observations of Aerosol Variability in the Lower Stratosphere
Observations of the 1991 Mt. Pinatubo eruption and periods of non-aerosol loading presented by Larry Thomason.
Saturday, December 16, at 2:30—Moscone Center 125, Session A62E

Connections Between the Sun and the Earth's Climate
Destruction of the Earth's ozone by electron precipitation caused by solar processes presented by Linwood Callis.
Monday, December 18, at 11:48—Moscone Center 130, Session A11C

POSTER SESSIONS

African Dust Signatures and Other New Data
Applications for data from the Multi-angle Imaging Spectro Radiometer (MISR) and two Clouds and the Earth's Radiant Energy System (CERES) instruments presented by Linda Hunt.
Saturday, December 16, at 8:30—Moscone Center, Hall D, Session A61D

New Measurements Over the Arctic Regions During SOLVE
New examples of water vapor and relative humidity measurements presented by Richard Ferrare.
Sunday, December 17, at 8:30—Moscone Center, Hall D, Session A71A

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Ozone Losses Over the Arctic
New analysis of ozone loss inside the arctic polar vortex measured with the airborne Ultraviolet (UV) Differential Absorption Lidar (DIAL) during the SOLVE mission presented by William Grant.
Sunday, December 17, at 8:30—Moscone Center, Hall D, Session A71A

Uncertainties Affecting Data Products from the Stratospheric Aerosol and Gas Experiment (SAGE) III
A computer simulation models the effects of different atmospheric variables on SAGE III by Randal VanValkenburg.
Sunday, December 17, at 8:30—Moscone Center, Hall D, Session A71B

One of the World's Longest Continuous Aerosol Records
Long-term monitoring of stratospheric aerosols using a lidar (light detection and ranging) instrument presented by David Woods.
Sunday, December 17, at 8:30—Moscone Center, Hall D, Session A71B

A Global Climatology of Effective Radius Retrieved from SAGE II
A new method to calculate aerosol effective radius measured by SAGE II presented by Glenn Yue.
Sunday, December 17, at 8:30—Moscone Center, Hall D, Session A71B

Observations During SOLVE of Clouds and Atmospheric Components in the Arctic
Lidar Atmospheric Sensing Experiment (LASE) measurements of water vapor and aerosol distributions with an outstanding example of mountain wave activity presented by Syed Ismail.
Sunday, December 17, at 1:30 —Moscone Center, Hall D, Session A72A

Evaluating an Outreach Project Focused on NASA's CERES Program
Lessons learned from Students Cloud Observations On-Line (S'COOL) presented by Lin Chambers.
Monday, December 18, at 1:30 —Moscone Center, Hall D, Session ED12A

Validation of Surface Radiative Fluxes Derived from CERES Measurements
Shortwave and longwave surface radiative fluxes on a global scale presented by Shashi Gupta.
Tuesday, December 19, at 2:45 p.m.—Moscone Center 131, Session A22D

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(For more information on these or other Atmospheric Science programs, please call the NASA Langley Research Center, Hampton, Va., at the numbers listed above.)